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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,694	10/22/2003	Pui Kuong Lui	MR1957-788	4629
4586	7590	05/20/2005	EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			VO, ANH T N	
			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/689,694

Applicant(s)

LUI ET AL.

Examiner

Anh T.N. Vo

Art Unit

2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 U.S.C. § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Kim et al. (US Pat. 6,032,010) in view of Kobayashi et al. (US Pat. 6,238,042), McAffer et al. (US Pat. 5,454,409) and Williamson et al. (US Pat. 6,447,109).

Kim et al. disclose in Figures 1, 3-4 and 6 an ink supply apparatus comprising:

- at least three individual casings (30 or 30a) each including a top wall having an air vent (32) formed on a surface of the top wall and the surface of each top wall on which a sealing film (33) attached for sealing the air vent (32) before used (Figures 1 and 6);
- wherein each of the casings (30 or 30a) has an accommodating space for filled with different colors of liquid ink; wherein each of the casings has a drain conduit (51) extending downwardly from a bottom thereof;
- a base seat (1) on which the casings (30) are mounted, and the base seat having at least three holes (55) for providing the drain conduits (50) of the casings (30) to pass through, correspondingly (Figures 1 and 3-4); and
- wherein the base seat (1) has at least three frame faces formed at a top thereof for receiving bottom walls of the casings, respectively (Figure 1).

However, Kim et al. do not disclose a circuitous channel that is formed on a surface of a top wall, the channel is in communication with air vent of the cartridge; a sealing film to seal the

air vent and the circuitous channel; wherein each of the casings is of a transparent material for viewing the ink refilled capacity therein; wherein the base seat has a plurality of hooks for coupling with a fluid container; wherein the hooks are downwardly extended from two edges of the base seat, respectively; wherein the base seat has a plurality of hooks downwardly extended from two edges thereof for coupling with the hooking slots of the fluid container; the ink is refilled from an air vent of an casing.

Kobayashi et al. disclose in Figures 1a and 2a-2b an ink refilling cartridge comprising

- a circuitous channel (440) formed on a surface of a top wall (16) of the ink cartridge, the channel (440) is in communication with air vent (414) of the cartridge;
- a sealing film (42) to seal the air vent (414) and the circuitous channel (440) (Figures 2a-2b); and
- wherein each of the casings (1) is of a transparent material for viewing the ink refilled capacity therein (column 7, lines 57-65).

McAffer et al. discloses in Figures 2 and 5 a transfer adaptor for filling a fluid comprising:

- wherein the base seat (41) has a plurality of hooks (45, 47) for coupling with a fluid container (67) (Figure 2);
- wherein the hooks (45, 47) are downwardly extended from two edges of the base seat (41), respectively (Figure 2); and
- wherein the base seat (41) has a plurality of hooks (45, 47) downwardly extended from two edges thereof for coupling with the hooking slots (75) of the fluid container (67).

Williamson et al. disclose in Figures 1-2 and 7 an ink cartridge comprising an ink is refilled from an air vent (60) of a casing (12).

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to incorporate the teaching of Kobayashi et al. , McAffer et al. and


Williamson et al. in the Kim et al. ink supply apparatus for the purpose of preventing ink leaking out from air vent during shipping or transporting, holding between an ink filling cartridge and an ink receiving cartridge and providing a hole for filling ink and also communicating with the atmosphere to stably supply ink.

***Citation of Pertinent Prior Art***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art references (US Pat. 3,917,063; US Pat. 4,999,652; US Pat. 5,581,287; US Pat. 5,595,223; US Pat. 6,007,192; US Pat. 6,053,604; US Pat. 6,053,603; US Pat. 6,213,597; US Pat. 6,257,713) cited in the PTO 892 form show an ink cartridge that is deemed to be relevant to the present invention. These references should be reviewed.

***CONCLUSION***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (571) 272-2262. The examiner can normally be reached on Tuesday to Friday from 9:00 A.M. to 7:00 P.M.. The fax number of this Group 2861 is (703) 872-9306.

  
**ANH T.N. VO**  
**PRIMARY EXAMINER**  
May 17, 2005